

VALVE ACCESSORIES

Fugitive Emission Bonnet (FE)

A device for improved Fugitive Emission prevention from valve stem sealing. The device adds a secondary sealing layer on top of the valve integral steam sealing.

Features

- Secondary HermetiX or High temperature graphite sealing arrangement.
- Any media that might breach the valve stem seal is contained within the device bonnet until valve maintenance can be safely held.
- The bonnet design allows a sensing device to be fitted between the two sealing arrangements, allow immediate breach identification or alerting.
- A machined lip on the bonnet bottom plane ensures a safe fit over the valve ISO pad. A static seal provides sealing to the atmosphere.
- Double blowout proof stems.
- Linear alignment between valve stem, extension and actuator to reduce side load.

Caution!: Pressure within the FE bonnet must not exceed 50 bar!



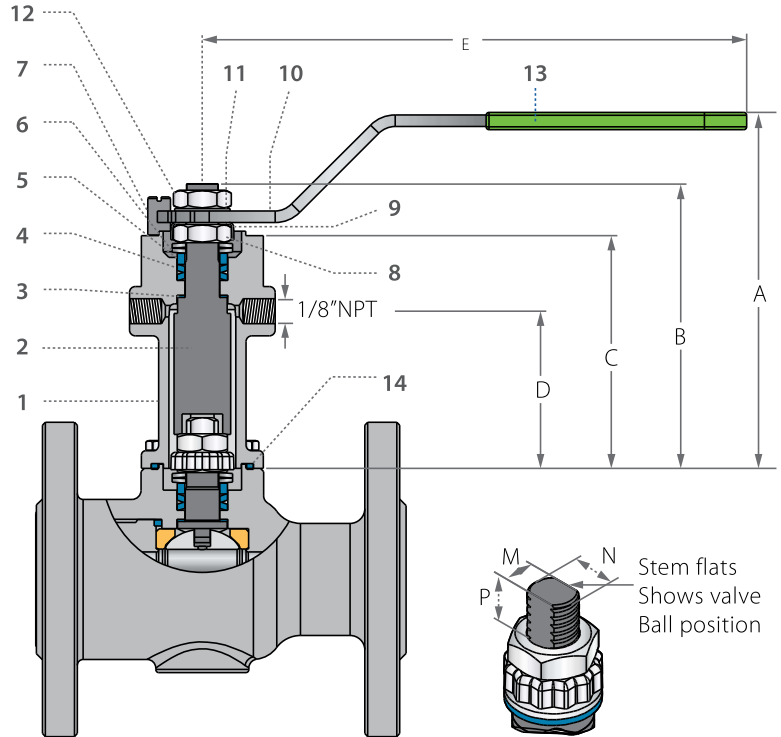


Fugitive Emission Bonnet (FE)

Device dimensions

Components & materials

Item	Description	Material specification	Qty.
1	Body	Acc. Ordering Code	1
2	Stem	Acc. Ordering Code	1
3	Stem thrust seal	Virgin PEEK	1
4	Stem seal	TFM	1
5	Follower	S. Steel	1
6	Disc spring	S. Steel	2
7	Stop pin	S. Steel	1
8	Stem nut	S. Steel	1
9	Locking clip	S. Steel	1
10	Handle	S. Steel	1
11	Serrated washer	S. Steel	1
12	Handle nut	S. Steel	1
13	Handle sleeve	PVC	1
14	Bonnet seal	PTFE / GRAPHITE	1



Dimensions

Valve size	FE Size	A	B	C	D	S	M	N	P	F
DN15 & DN20 1/2" & 3/4"	05	114.00 4.48	89.10 3.50	80.00 3.15	55.25 2.17	150.00 5.90	5.50 0.21	3/8" UNF	7.20 (F03) 0.28	36.00 1.42
DN25 & DN32 1" & 1 1/4"	10	122.00 4.83	97.40 3.83	80.00 3.15	54.00 2.12	187.00 7.36	7.54 0.29	7/16" UNF	7.20 (F04) 0.28	42.00 1.65
DN40 & DN50 1 1/2" & 2"	15	154.00 6.03	129.40 5.09	100.00 3.93	77.00 3.03	236.00 9.29	8.71 0.34	9/16" UNF	80.00 (F05) 0.31	50.00 1.97
DN65 2 1/2"	25	144.00 5.66	118.10 4.65	100.00 3.93	76.50 3.01	236.00 9.29	8.71 0.34	9/16" UNF	13.50 (F07) 0.53	70.00 2.76

F.E. Stem operating torque

Reduced port Valve size	FE Size	HC / HermetiX™		AI packing		Control valves (N) / Graphite packing (KG)	
		N*m	lbf*inch	N*m	lbf*inch	N*m	lbf*inch
DN15 & DN20 1/2" & 3/4"	05	2.00	17.70	3.00	26.50	4.00	35.40
DN25 & DN32 1" & 1 1/4"	10	5.00	44.20	7.00	62.00	9.00	79.60
DN40 & DN50 1 1/2" & 2"	15	7.00	62.00	11.00	97.30	13.00	115.00
DN65 2 1/2"	25	7.00	62.00	11.00	97.30	13.00	115.00

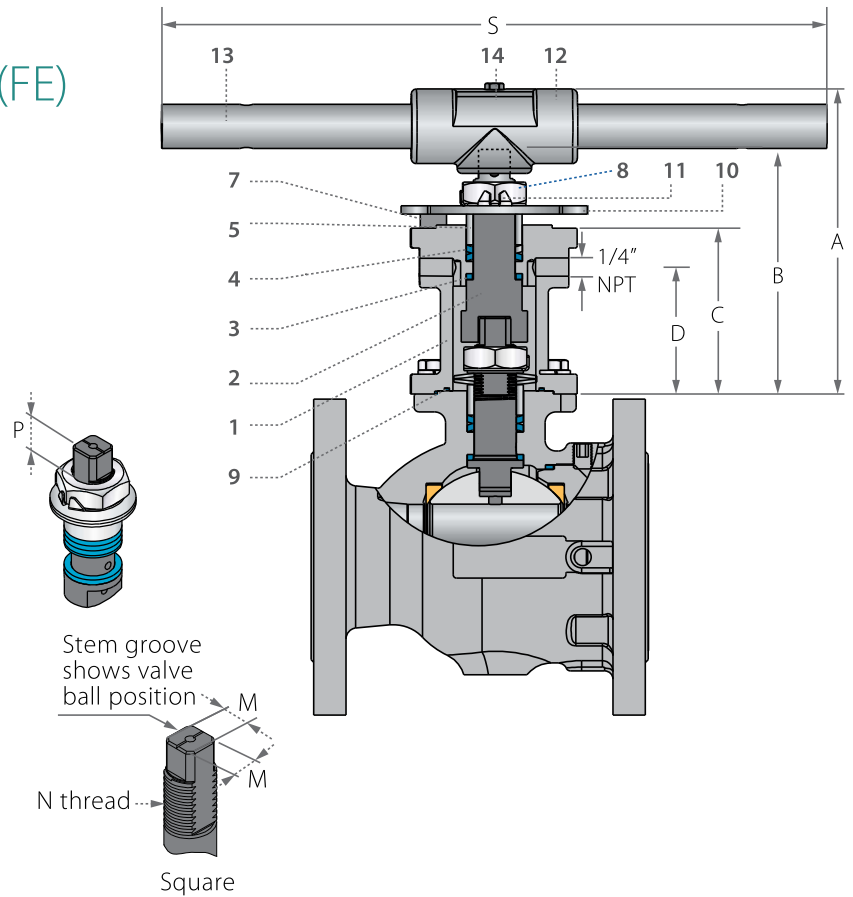
Note: When sizing an actuator add the above figures to the valve operating torque

Fugitive Emission Bonnet (FE)

Device dimensions

Components & materials

Item	Description	Material specification	Qty.
1	Body	Acc. Ordering Code	1
2	Stem	Acc. Ordering Code	1
3	Stem thrust seal	Virgin PEEK	1
4	Stem seal	TFM	1
5	Follower	S. Steel	1
6	Disc spring	S. Steel	2
7	Stop pin	S. Steel	1
8	Stem nut	S. Steel	1
9	Bonnet seal	PTFE / GRAPHITE	1
10	Stop plate	S. Steel	1
11	Tab lock washer	ASTM A240 304	1
12	Wrench head	S. Steel	1
13	Wrench handle	304	1
14	Wrench handle bolt	ISO 4014 A2-70	1



FE dimensions

Valve size	FE Size	A	B	C	D	S	M	N	P	F	
DN80 & DN100	mm	87.00	196.00	150.00	76.50	401.00	18.90	1" -14	16.70	(F10)	102.00
3" & 4"	inch	7.36	7.74	5.90	3.01	15.79	0.74	UNS-2A	0.66		4.02
DN150 & DN200	mm	273.00	219.00	150.00	100.00	401.00	18.90	1" -14	16.70	(F12)	125.00
6" & 8"	inch	10.74	8.62	5.90	3.93	15.79	0.74	UNS-2A	0.66		4.92

FE Stem operating torque

Reduced port Valve size	FE Size	HC / HermetiX™		Al packing		Control valves (N) / Graphite packing (KG)	
		N*m	lbf*inch	N*m	lbf*inch	N*m	lbf*inch
DN80 & DN100 3" & 4"	30	13.00	115.00	18.00	159.30	25.00	221.20
DN150 & DN200 6" & 8"	60	32.00	283.00	43.00	380.50	60.00	531.00

Note: When sizing an actuator add the above figures to the valve operating torque

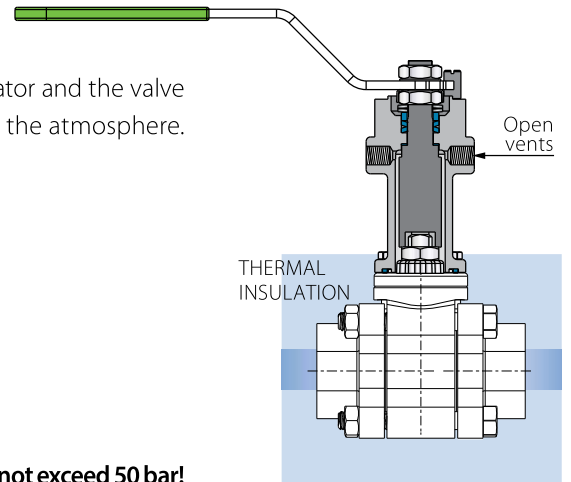


Extended Bonnet (EXT)

An extension device to allow a larger distance between the handle or actuator and the valve body. The extension bonnet does not seal at its upper end and is open to the atmosphere. The valve steam seal is in use for media sealing.

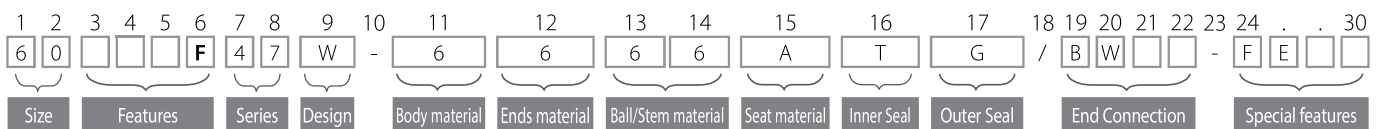
Suitable for critical applications when:

- Valve and pipe lines need to be insulated
- Valve operation must be elevated from extreme temperature areas
- Direct mounting of actuator to a valve is not suitable



Caution!: In any case the vents are sealed - pressure within the FE bonnet must not exceed 50 bar!

Ordering Code System



Special Features (24-30)	
FE	Fugitive Emission
EXT	Extended Bonnet